



Overview of
changes
for
the 2015
590
Standard

New Compliance Checks

- Calibration method (checkbox)
- 12,000 gal/acre manure limit on tiled fields
- Gully erosion
- Only treated manure for 1000 ft municipal well zone
- In-season N requirements for highly permeable (P) soils (split applications, nitrification inhibitor or slow release fertilizer)
- Fall fertilizer N restrictions for 1000 ft municipal well buffer and 5 ft to bedrock soils
- Added fall N restrictions for P and R soils and for very liquid manure (<4% organic matter) on P,R,W soils
- Starter fertilizer – subsurface with planting

Replaced

- Check for 12,000 gallon/acre max rate in SWQMA
- Check for 300 ft winter conduit to groundwater buffer
- Check for winter spreading strategies



New guidance messages

- Avoid buffers for wells and direct conduits to groundwater
- Instructions for delaying applications until soils are cooler for fall manure applications
- No spreading in February or March
- Mitigating ephemeral erosion

New Documentation

Winter spreading report

- Manure production (14-day, 120-days)
- Storage
- Fields with winter applications:
 - Winter compliance/guidance issues
 - Other fields available if slope > 6%
 - Selected practices for fields > 6% slope, concentrated flow areas
- Suitable fields and acres with no winter applications planned

WPDES-Permitted Farms

- Use new provisions of 2015 590 except retain SWQMA liquid manure rate limits based on soil texture and cover
- Software automatically determines appropriate SWQMA buffer based on application method and tillage
- All SWQMA, well, conduit to groundwater and other buffer acreage removed from spreadable acres
- Spreadable acres for each field used to calculate total planned manure application volume



Overview of
changes
for
the
SnapPlus
desktop



SnapMaps Screen

Farm | Soil Tests | SnapMaps | Fields | Nutrients | Cropping | Daily Log | Reports

2017 << Upload year Data exchange options

1. Upload 2. Website 3. Download Refresh Clear My Web Data 6 total rec

SnapMap Fields | SnapMap Restrictions | SnapMap Soils | SnapMap Features | SnapMap Acres

A	E					
x	i					
						Field

- Set upload year
- Data exchange



SnapMaps Data exchange

Send Map Report Data

Select data to send to the server on Upload

- ☐ Field and rotational data
- ☐ All applications
- ☐ Compliance and other flags
- ☐ Model results
- ☐ Soil test sample points
- ☒ Label options

Select data to download from the server on Download

Options for downloading features

☒ Fields only ☐ Non-field features only ☐ All

Options for downloading spreadable acres

☒ None ☐ Non-Winter ☐ Winter ☐ All

OK Cancel



Farms Screen

- Farms
 - Annual notes
 - SWQMA spreading strategies

Farm Screen

- The concentrated flow notes have been moved to the Field Problems page. In its place, you may keep your annual farm notes.
- The Farm Narrative and Annual notes are rich text capable. That means that you can, in most cases, cut form a word processing document and paste it into the Farm Narrative and Annual notes.

Farm Screen

Plan Completion / Update Date
2017-08-15  

Farm Narrative:




Annual notes for crop year: 2017  



Discovery farm field day

Farm Screen

 CAFO SWQMA Manure Spreading Strategy

?

X

Strategies for applying manure adjacent to navigable water, a conduit to navigable water, or wetland in an NR243 SWQMA (annual crops and perennial crops):

Spreading strategy - All crops

☐ 1. No applications within 25 ft; inject or immediately incorporate in rest of SWQMA

☒ 2. No applications within 25 ft; Long-term, no-till; surface apply in the rest of SWQMA

☐ 3. Establish a 35-foot vegetated buffer; follow application guidelines in rest of SWQMA

☐ 4. Establish a 21-foot filter strip; follow application guidelines in rest of SWQMA

☒ 5. No applications within 100 ft.

☐ 6. Other approved practice (If this is chosen, explain in Farm Narrative)

Accept

Cancel



Fields Screen - Grid

Farm

Soil Tests

SnapMaps

Fields

Nutrients

Cropping

Daily Log

Reports

Fields

Subfarms

Groups

+

-

Spreadable Acres

Field Problems

Total Acres: 53.3

Field Count: 4

?

GDD Override: Show all fields.

What is drained?

What is verified?

ALL	Field Name	Active	Sub Farm	Fsa Tract #	Fsa Field #	Size (acres)	County	Soil Map Symbol (critical)	Soil Series Name (critical)	Soil Map Symbol (pre-dominant)	Soil Series Name (pre-dominant)	Field Slope (%)	Field Slope Length (ft)	Below Field Slope to Water (%)	Distance to Perennial Water (ft)	Restriction Features	Drained	Verified	Field notes
▶ 09	...	☑	▼			5.00	Kew... ▼	7501 ▼	OSSINE...	7501 ▼	OSSINE...	2	250	2.1 - 6 ▼	301 - ... ▼	yes	☐	☐	


- **Drained** – was Tiled ?
- **Verified** – Check to prevent SnapMap imports from overwriting the data.
- **DNR Winter** – DNR approved for winter spreading

Spreadable Acres

Manage Field Acres												?
Field spreadable acres												
	Field Name	Field Acres	Total Acres	FSA Acres	Cropping Acres	Manure spreadable acres 25ft.	Manure prohibited acres 25ft.	SWQMA spreadable acres 25 ft	Manure spreadable 100ft.	Manure prohibited acres 100ft.	Manure spreadable acres Winter	Field Verified
09		5	5	5	5	5	0	5	5	0	NaN	<input type="checkbox"/>
10		8.3	8.3	8.3	8.3	8.3	0	8.3	8.3	0	NaN	<input type="checkbox"/>
	Shallow silurian	38.6	38.6	38.6	38.6	38.6	0	38.6	38.6	0	NaN	<input type="checkbox"/>
	Well compensation	1.4	1.4	1.4	1.4	1.4	0	1.4	1.4	0	NaN	<input type="checkbox"/>
	Σ Totals	53.3	53.3	53.3	53.3	53.3	0	53.3	53.3	0	0	<input checked="" type="checkbox"/>

Once you have edited them and feel they are correct, click in the **Field Verified** checkbox so future SnapMap imports won't overwrite these values.

Farm Screen

 CAFO SWQMA Manure Spreading Strategy

?

X

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☒ 5. No applications within 100 ft.

☐ 6. Other approved practice (If this is chosen, explain in Farm Narrative)

Accept

Cancel



Fields – Problems

Farm

Soil Tests

SnapMaps

Fields

Nutrients

Cropping

Daily Log

Reports

Fields

Subfarms

Groups

Right-click on column headers for single or multi-cell editing of selected cells.

+

-

Spreadable Acres

Field Problems

Total Acres: 53.3

Field Count: 4

What is drained?

What is verified?

ALL

Field Name

Active

Sub Farm

Fsa Tract #

Fsa Field #

Size (acres)

County

Soil Map Symbol (critical)

Soil Series Name (critical)

Soil Map Symbol (pre-dominant)

Soil Series Name (pre-dominant)

Field Slope (%)

Field Slope Length (ft)

Below Field Slope to Water (%)

Distance to Perennial Water (ft)

Restriction Features

Drained

Verified

Field notes

▶

09

...

☒

▼

5.00

Kew... ▼

7501 ▼

OSSINE...

7501 ▼

OSSINE...

2

250

2.1 - 6 ▼

301 -... ▼


yes



☐



☐

- The **Field Problems** button will open a window where you may log problems such as **ephemeral channels** and **gullies**.

Field Problems

 Record your field problems

	Field Name	Problem	Start year	Year fixed	Notes
	09 ▼	Gully ▼	2015	2016	Grass waterway
	Shallow si... ▼	Gully ▼	2016	0	

- Until you enter the **Year fixed** these problems will be compliance issues.
- This is where you should log your concentrated flow notes.



Field Restrictions

Setup Field Restriction Features

Spreading Restriction Features for Field 1

Note: If any part of the field has an N restricted soil or is in a SWQMA, then it should be marked as such below.

Field soils **Dominant critical: RtD2** **Predominant: SoB**

Fall N Restrictions

N restricted soil other than selected soils: Code: [N Restriction definitions](#)

Field Restrictions

- ☒ Field in 590 SWQMA
- ☐ Drinking water well within 50ft of field edge
- ☐ Local prohibitions for winter applications
- ☒ Slope restriction for winter applications
- ☐ Concentrated flow channel

Conduits to groundwater within 200ft downslope of field

- ☒ Sinkholes
- ☐ Well
- ☐ Fractured bedrock at surface
- ☐ Non-metallic mine (a gravel or sand mine for example)
- ☐ Other direct conduit to groundwater

Notes

Setup Field Restriction Features

Spreading Restriction Features for Field 08

Note: If any part of the field has an N restricted or CAFO manure restricted soil or is in a SWQMA, then it should be marked as such below.

Field soils **Dominant critical: BIB** **Predominant: BIB**

Fall N Restrictions

N restricted soil other than selected soils: Code: [N Restriction definitions](#)

☒ Less than 5 ft to bedrock

CAFO Manure Restrictions

Restricted soil other than selected soils: Code: [CAFO W & R definitions](#)

- ☐ Acknowledge use of proper techniques for W soil manure applications
- ☐ Field drains to 303 (d) or outstanding/exceptional waters

Field Restrictions

- ☐ Field in 590 SWQMA
- ☒ Drinking water well or conduit to groundwater 100 ft
- ☐ Local prohibitions for winter applications
- ☐ Slope restriction for winter applications
- ☐ Concentrated flow channel
- ☐ February/March prohibition on liquid manure
- ☐ Field in CAFO SWQMA
- ☐ Public well within 100 ft
- ☐ Municipal well within 1000 ft
- ☐ Irrigation well within 100 ft
- ☐ Tile lines present in field

Winter - Conduits to groundwater within 300 ft of field

- ☐ Sinkholes
- ☐ Fractured bedrock at surface
- ☐ Non-metallic mine (a gravel or sand mine for example)
- ☐ Other direct conduit to groundwater
- ☐ Any well within 300 ft

Notes



Field Restrictions

Setup Field Restriction Features

Spreading Restriction Features
for Field 08

Note: If any part of the field has an N restricted or CAFO manure restricted soil or is in a SWQMA, then it should be marked as such below.

Field soils Dominant critical: BIB Predominant: BIB

Fall N Restrictions

N restricted soil other than selected soils: Code: [N Restriction definitions](#)

☐ Less than 5 ft to bedrock

CAFO Manure Restrictions

Restricted soil other than selected soils: Code: [CAFO W & R definitions](#)

☐ Acknowledge use of proper techniques for W soil manure applications

☐ Field drains to 303 (d) or outstanding/exceptional waters

Field Restrictions

<input type="checkbox"/> Field in 590 SWQMA	<input type="checkbox"/> Field in CAFO SWQMA
<input checked="" type="checkbox"/> Drinking water well or conduit to groundwater 100 ft	<input type="checkbox"/> Public well within 100 ft
<input type="checkbox"/> Local prohibitions for winter applications	<input type="checkbox"/> Municipal well within 1000 ft
<input type="checkbox"/> Slope restriction for winter applications	<input type="checkbox"/> Irrigation well within 100 ft
<input type="checkbox"/> Concentrated flow channel	<input type="checkbox"/> Tile lines present in field
<input type="checkbox"/> February/March prohibition on liquid manure	

Winter - Conduits to groundwater within 300 ft of field

<input type="checkbox"/> Sinkholes	<input type="checkbox"/> Any well within 300 ft
<input type="checkbox"/> Fractured bedrock at surface	
<input type="checkbox"/> Non-metallic mine (a gravel or sand mine for example)	
<input type="checkbox"/> Other direct conduit to groundwater	

Notes

Accept Cancel



Nutrients Screen

Open Nutrient Systems Editor



Copy Sources/Fertilizers/Herds



Edit Shared Fertilizers

The **Open Nutrient Systems Editor** – Will allow building application systems for particular situations or crops.



Nutrient Production

	Animal Type and Size	Subfarm	Barn name	Present In Winter
▶	Dairy Calf 150 lbs			<input checked="" type="checkbox"/>
	Dairy Calf 250 lbs			<input checked="" type="checkbox"/>
	Dairy Heifer 750 lbs			<input checked="" type="checkbox"/>
<				

The **Present In Winter** check is used for the Winter Spreading report.



Cropping Screen

2019			2020			2021		
Corn silage ▾			Corn silage ▾			Corn silage ▾		
20.1-25 ▾			20.1-25 ▾			20.1-25 ▾		
Spring Chisel, no disk ▾			Spring Chisel, no disk ▾			Spring Chisel, no disk ▾		
2016-05-30 ▾			2016-05-30 ▾			2016-05-30 ▾		
NOT MET			NA			NA		
<input type="checkbox"/> Irrigated 0.05/MRTN			<input type="checkbox"/> Irrigated 0.05/MRTN			<input type="checkbox"/> Irrigated 0.05/MRTN		
N	P2O5	K2O	N	P2O5	K2O	N	P2O5	K2O
190	0	185	190	0	185	190	0	185
-	90	0	-	400	180	-	710	360
190	0	185	190	0	5	190	0	0
120	-	-	50	-	-	0	-	-
0	-	-	36	-	-	36	-	-
180	90	255	180	90	255	180	90	255
99	220	110	99	220	110	99	220	110



Cropping Screen - NAP

Field: Shallow siluria Crop Year: 2018 Crop: Corn grain
Soil: KwC2, KOLBERG Prev: Corn grain
Acres: 38.6 Soil Test P: 67 K: 115

Field Application Restrictions: N Winter Manure SWQMA Groundwater Conduit Other
Field Over(+)/Under(-) Application (lbs/acre) N -108 P2O5 21 K2O 64

Manure / Biosolid Applications Fall 2017 thru Summer 2018
Fertilizer Applications

Field Restrictions
Apply Nutrient System

Source name	Season	Spread method	Rate	Units	NO ₃ Inh.	Actual
Dairy Liquid	Winter	Unincor...	7,000	gals/a...	<input type="checkbox"/>	<input type="checkbox"/>

This Winter Manure Spreading practice is not followed:
e. Reduce application rate to 3,500 gallons or 30 pounds of P2O5, whichever is less.
Nutrient applications should not be planned for this field until perennial vegetative cover is established in all areas with reoccurring gullies.

- With the new 590 you have to select your winter manure spreading strategies. You may do that by clicking on the **Winter Strategies** button.
- If you don't follow a selected strategy, will be compliance issues.



NAP – Winter Strategies

2015 590 - Winter manure spreading practices.

Practices for fields with slope > 6%. The slope of this field is 4%.
Winter spreading practices are not required but may be selected.

- ☐ a. Contour buffer strips or contour strip cropping.
- ☒ b. Leave all crop residue (this prohibits removal of silage or bedding) and no fall tillage.
- ☐ c. Apply in intermittent strips on no more than 50% of the field.
- ☐ d. Apply on no more than 25% of the field during each application waiting a minimum of 14 days between applications.
- ☐ e. Reduce application rate to 3,500 gallons or 30 pounds of P2O5, whichever is less.

OK Cancel



NAP (continued)

Field: Shallow siluria Crop Year: 2018 Crop: Corn grain
Soil: KwC2, KOLBERG Prev: Corn grain
Acres: 38.6 Soil Test P: 67 K: 115

Field Application Restrictions: N Winter Manure SWQMA Groundwater Conduit Other
Field Over(+)/Under(-) Application (lbs/acre) N -108 P2O5 21 K2O 64

Manure / Biosolid Applications Fall 2017 thru Summer 2018
Fertilizer Applications

Field Restrictions
Apply Nutrient System

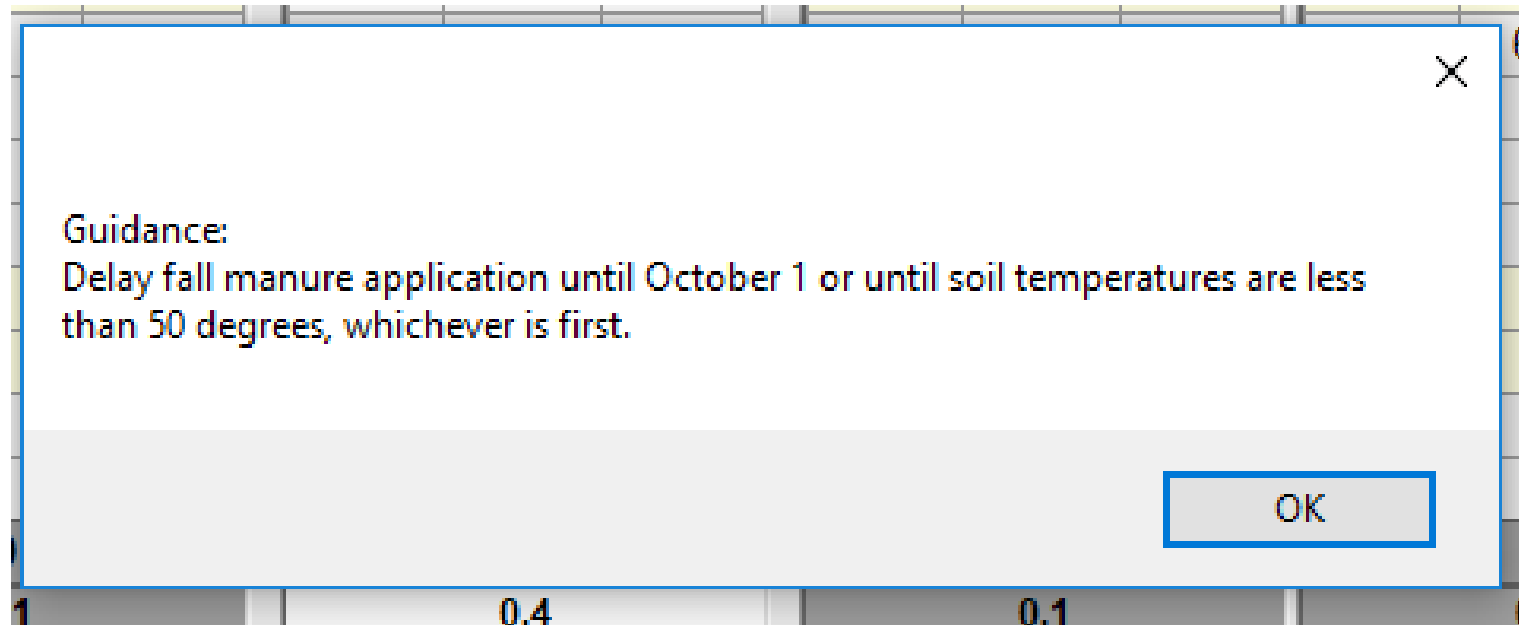
Source name	Season	Spread method	Rate	Units	NO ₃ Inh.	Actual
Dairy Liquid	Winter	Unincor...	7,000	gals/a...	<input type="checkbox"/>	<input type="checkbox"/>

This Winter Manure Spreading practice is not followed:
e. Reduce application rate to 3,500 gallons or 30 pounds of P2O5, whichever is less.
Nutrient applications should not be planned for this field until perennial vegetative cover is established in all areas with reoccurring gullies.

- Add Nutrient System button
- Manure NO₃ Inhibitor
- Guidance



NAP (continued)





Cropping Grid

	Field Name	Soil Symbol	Acres	Prev. Crop	Prev. Tillage	Prev. Yield Goal	Crop
▶	08	BIB	2.0	Alfalfa ...	Fall Ch...	1.0-2.5	Alfalfa ▼
	09	BIC2	5.0	Alfalfa	None	4.6-5.5	Alfalfa ▼
	10	BoB	8.3	Alfalfa	None	4.6-5.5	Corn silage ▼
	11	BuA	8.7	Corn si...	Spring ...	20.1-25	Corn silage ▼
	12	CkB	25.5	Corn si...	Spring ...	20.1-25	Corn silage ▼
	13	BIC2	15.5	Corn si...	Spring ...	20.1-25	Alfalfa Seeding Spring ▼



Daily Log

+

-

Delete all

drag hose

Select editing column

☐ Loads
☒ Rate

Manure

Fertilizer

Lime

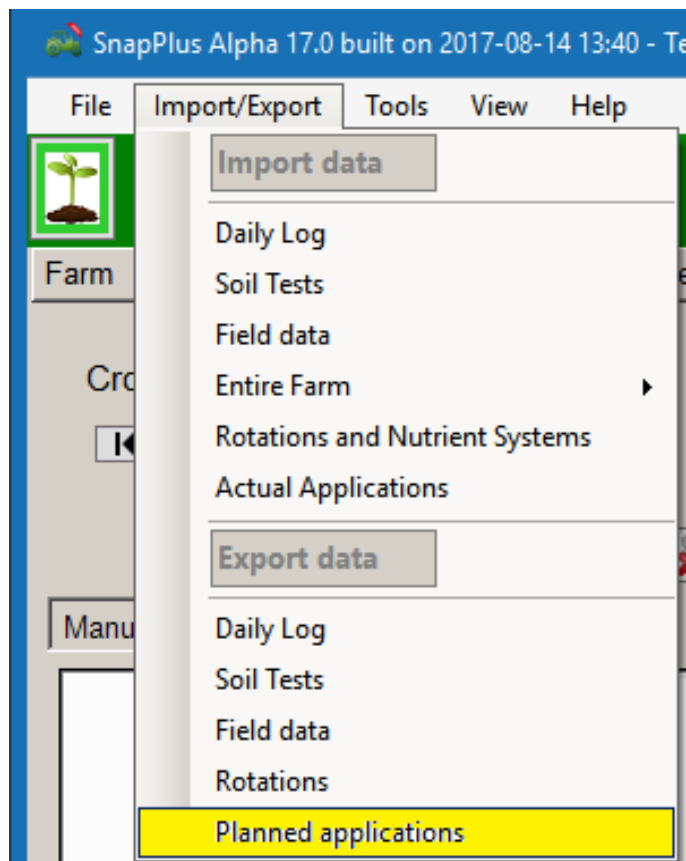
Grazing

	Added	Application Date	Crop Year	Season	Driver	Field Name	Acres Applied	Nutrient Source	Nutrient Type	Spreader Volume	# Loads	Spreader Rate	Soil Conditions	Nearest Dupl (te ac)
	<input checked="" type="checkbox"/>	2018-05-01	2018	Spring	JWW	09	5.00	Dairy Slurry	Dairy, slurry	20,000	3.75	15,000	satura...	Dry
	<input type="checkbox"/>	2018-05-01	2018	Spring	JWW	10	8.30	Dairy Slurry	Dairy, slurry	20,000	6.23	15,000	satura...	Dry
	<input type="checkbox"/>	2017-10-15	2018	Fall	JWW	11	8.70	Dairy Slurry	Dairy, slurry	20,000	6.53	15,000	satura...	Dry
	<input type="checkbox"/>	2017-10-15	2018	Fall	JWW	12	25.50	Dairy Slurry	Dairy, slurry	20,000	19.13	15,000	satura...	Dry

- **Rates** for partial field applications are used in the NAP.
- When using **Loads** the rate is calculated.



Export to Daily Log



Export planned applications: On smaller farms you may elect to export your planned applications to the daily log, make any edits necessary and then Import to update your actual applications.

There will be new Daily Log videos.



Export to Daily Log

Planned Applications

Export destination

☐ To File ☒ Daily Log

Select which applications to export

☒ Manure ☐ Fertilizers ☐ Lime

4 distinct applications in 2017.

Select crop year and seasons to export

Crop Year: 2017

Season: All

Export Cancel



SnapPlus Desktop

Any Questions ?



Miscellaneous
SnapPlus
Desktop
Updates and
Reminders



But WHEN?



Easy Group Builder

SnapPlus - Group Builder

Group Builder

Choose your criteria:

- ☒ Field Information
 - ☐ Subfarm
 - ☒ Acres
 - ☐ Slope
 - ☐ Slope Length
 - ☐ Slope to Water
 - ☐ Field Distance to Water
 - ☐ Critical Soil Map Unit Symbol
 - ☐ Critical Soil Map Unit Series
 - ☐ Predominant Soil Map Unit Symbol
 - ☐ Predominant Soil Map Unit Series
 - ☐ DNR Winter Approved
- ☐ Soil Tests
 - ☐ Field Spreadable Acres
 - ☐ Field Restrictions
- ☒ Soil Loss
 - ☒ Soil T
 - ☒ Avg Soil Loss (T/ac/yr)
 - ☒ Soil Loss above T?
- ☐ Groups
 - ☐ Fertilizer Applications
 - ☐ Manure Applications
 - ☐ Crop Management

Filter your fields down:

Field Name	Acres	Soil T	Avg Soil Loss (T/ac/yr)	Soil Loss above T?
10	7	2	4.6	Yes
11	8	2	4.5	Yes

Search Create Group

If you have a ton of fields, or are really trying to zero in on only a few fields, you can also send a group of fields up to the map.

TestSoilTReport.xlsx - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW Sign in

Clipboard Font Alignment Styles

Conditional Formatting Format as Table Cell Styles

Cells Editing

A1 : X ✓ fx Field Name

	A	B	C	D	E	F	G	H	I	J
1	Field Name	Acres	Soil T	Avg Soil Loss	Soil Loss above T?					
2	10	7	2	4.6	Yes					
3	11	8	2	4.5	Yes					
4										

Easy Group Builder

READY 100%



Nutrient Systems

- Groups nutrient applications for easier data entry
- A way of documenting split applications (now required for high permeable soils)

Nutrient System Editor

System Name: Split Application Example

Manage System: Copy System Share System

Manage System Applications:

	Nutrient Class	Source Name	Season	Spread Method	Rate	Units	Time	Notes
	Fertilizer	Urea	Fall	Unincorporated	50	lbs/acre	Pre Planting	split app
	Fertilizer	Urea	Fall	Unincorporated	50	lbs/acre	At Planting	split app
▶	Grazing	Graze	Grazing	Grazing	5	tons/acre		



Nutrient Systems

Nutrient Systems can be applied through the Nutrient Application Planner or through the Rotation Wizard.

Nutrient Application Planner

Field: 08 Crop Year: 2018 Crop: Alfalfa/Brome
Soil: SaC2, ST. CHARLES Acres: 2 Soil Test P: 45 K: 125

Field Application Restrictions: N Winter Manure / Biosolid Applications

Source name Season Spread method Rate Units Actual

Apply Nutrient System

Select the nutrient system you'd like to apply

Split Application Example

Open Nutrient Systems Editor

OK Cancel

All applications entered for this field and crop year appear to comply with Nutrient Management Standard 590.

Please explain non-compliant applications:

Apply Close Help

Nutrient Application Planner

Field: 08 Crop Year: 2018 Crop: Alfalfa/Brome
Soil: SaC2, ST. CHARLES Acres: 2 Soil Test P: 45 K: 125

Field Application Restrictions: N Winter Manure SWQMA Groundwater Conduit Other

Field Over(+)Under(-) Application (lbs/acre) N 0 P2O5 0 K2O -300

Field Application Restrictions: N Winter Manure SWQMA Groundwater Conduit Other

Fertilizer Applications

Source name Season Spread method Rate Units Actual

Grazing Grazing 5 tons/a...

Urea Fall Unincor... 50 lbs/acre

Urea Fall Unincor... 50 lbs/acre

Please explain non-compliant applications:

Apply Close Help



Bulk Reporting

- A faster way to run multiple reports

1.

Bulk Reports

Select the reports you want to run below

- ☒ Nutrient Management Plan
 - ☒ NM1 Narrative and Crops
 - ☒ NM2 Compliance Check
 - ☒ NM3 Field Data and 590 Assessment
 - ☒ NM4 Manure Tracking
 - ☒ NM5 Spreading and NM Sorted By Crop
 - ☒ NM6 Winter Spreading Plan
 - ☒ NM7 Implementation Guidance
- ☐ CAFO
 - ☐ CNM1 DNR CAFO Annual Spreading
 - ☐ CNM2 Animal Units
 - ☐ CNM3 DNR Daily Log
 - ☐ CNM4 DNR CAFO Nutrient Mass Balance
 - ☐ CNM5 CAFO Emergency Spreading
- ☐ Farm Management
 - ☐ FM4 Crop Production Trends
 - ☐ FM6 Soil Test Summary
 - ☐ FM10 Annual PI
- ☐ Soil Loss
 - ☐ SL2 Annual Soil Loss

2.

Bulk Reports

Enter values for the parameters below

Choose your dates

Start Year: 2013
End Year: 2019
Plan Year*: 2018

*all reports that require just one year or that drill into an additional year will use this year

Report-Specific Parameters

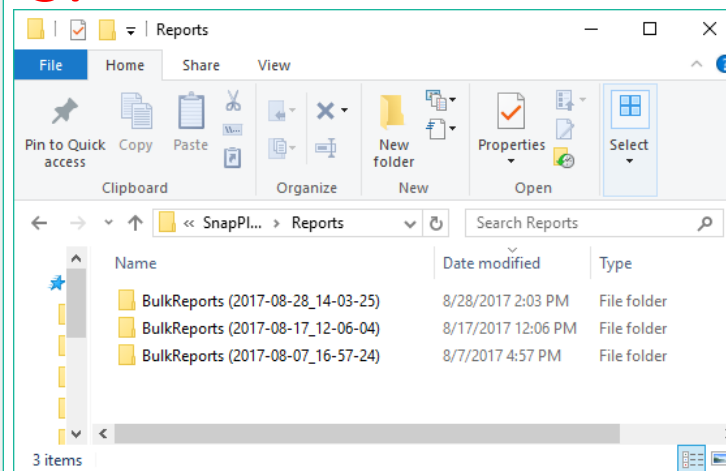
Compliance Check
590 Soil Test P or PI
☐ PI ☐ Soil Test P ☒ Both

Field Data and 590 Assessment
☐ Include field notes

Other Parameters
☐ Create ZIPfile with all reports

Select a subfarm or a group

3.





Winter Spreading Report

Only includes animals that are marked as "Present in Winter" on the Nutrients tab

Checks for you to see if other fields are available to spread on if you've got a field slope > 6%

Fields physically OK for 14-day plan (if none, notes!)

ColumbiaSampleFarm - Winter Spreading Plan Report 2018 08/28/2017

NM6 Winter Spreading Plan - 2018

All fields

Manure Production for 2018

Animal Type and Size	No. of head	lb/day per animal	Liquid gal/day per animal	14-day production as tons*	14-day production as gallons*	120-day production as tons*	120-day production as gallons*
Dairy Dry Cows 1400 lbs	5	115	25	4	1,750	35	15,000
Dairy Heifer 750 lbs	10	65	13.8	5	1,932	39	16,580
Totals				9	3,682	74	31,580

* These are estimates of the total manure produced by all the animals on a farm for a 14-day and a 120-day period. The intent of this calculation is for comparison to planned winter spreading amounts. Total production is shown both in tons and in gallons to make it easier for planners to compare to whichever units are used on a farm. The 2015 590 standards requires all producers with livestock to plan for winter-spreading for a minimum of 14-days of manure production. The 120-day manure production is shown because that is the approximate length of the frozen soil period in southern Wisconsin and is therefore the very minimum amount of days that should be planned for winter application or storage.

Manure Storage for 2018

Storage Name	Storage Source	Storage Type	Solid Storage (tons)	Liquid Storage (gallons)
Pit1	na	na	0	180,000
Totals			0	180,000

Manure Spreading for 2018

Total planned winter mechanical applications on 16 acres: 160 tons and 0 gallons
Total planned winter grazing applications on 0 acres: 0 tons

All fields with Mechanical Spreading in Winter 2018

Field Name	Acres	Slope %	Other Field Avail. if Sl>6%*	Conc. Flow	Winter Application Strategies	Winter Compliance Prob.	Problem Explanation
13	16	9	yes		a. Contour buffer strips or contour strip cropping. b. Leave all crop residue (this prohibits removal of silage or bedding) and no fall tillage.	Chosen strategies not followed GW conduit	na

*Fields with no winter applications and no spreading restrictions in 2018 (29 acres): 09, 12

Spells out your chosen winter application strategies and compliance problems



Implementation Guidance Report



Any guidance messages will show up separated by season to make it easier for a farmer to keep track of the decisions that need to be made as the year progresses

ColumbiaSampleFarm - Implementation Guidance Report 2018

08/28/2017

NM7 Implementation Guidance Report - 2018

All fields

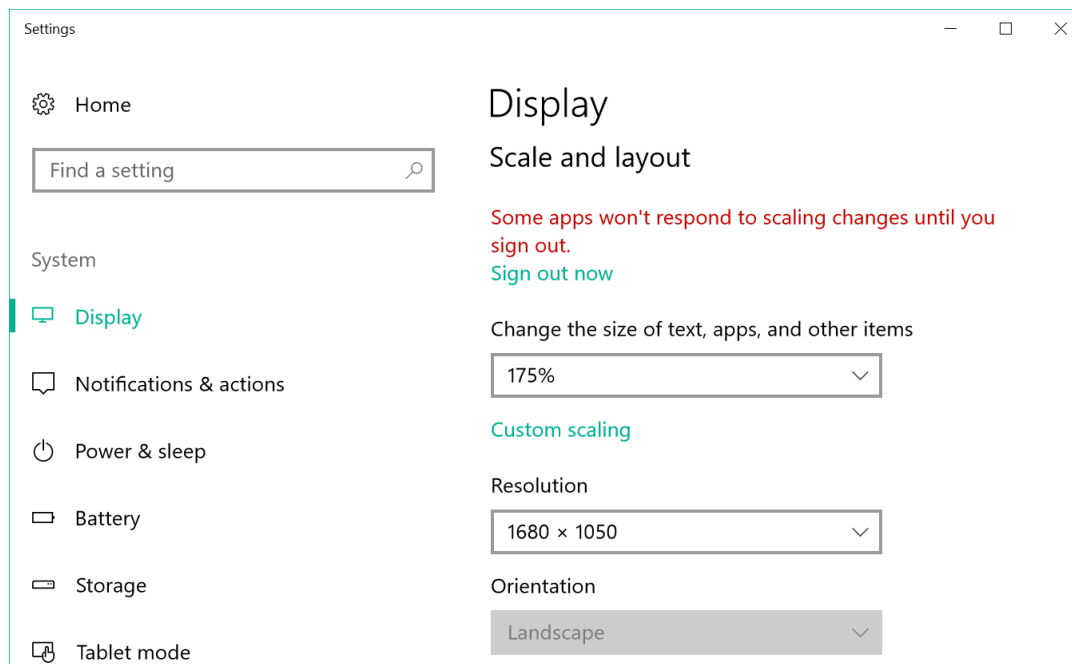
Guidance Messages for Winter 2018

Field	Guidance Messages
13	Winter - No manure within 300 ft of wells and conduits to groundwater.



Display Issues in Windows 8 & 10

- “High-dpi” causes spontaneous minimizing or strange-looking grids
- Change display settings to get around it



See FAQ for more in-depth info and two step-by-step workarounds



Exporting and Merging

- Exporting is the ONLY way to get a new farm for the SnapMaps website
- Merging should always be done on the desktop side first (demo)



Help Us Help You!

When emailing support@snapplus.wisc.edu, attach:

- Your .snapDb farm file (Ctrl-C, Ctrl-V)
- Screenshot, if needed (snipping tool)
- The Syslog (demo)



Website

- New videos! (Agronomist available!)
- Jim's handout
- "Display Issues"
- I PROMISE to post Sue's FAQ and all the rest of today's stuff



Overview of
Updates to
Crops,
Tillages, and
Soils



v. 17 Crop Additions

- Diversified vegetables
- Corn silage to annual cover crop
- Pumpkin to small grain cover crop
- Barley grain + straw to annual cover crop
- Winter triticale to corn grain
- Winter triticale to corn grain, baled stalks
- Winter wheat to corn grain, baled stalks



v. 17 Tillage Updates

- More choices for pumpkin and squash
- More choices for snapbean
- Fall cultivation for pea crops



v. 17 Crop Management Updates

- ❖ Legume N removal
- ❖ Small grain straw removal corrected



v. 17 Soil Database Updates

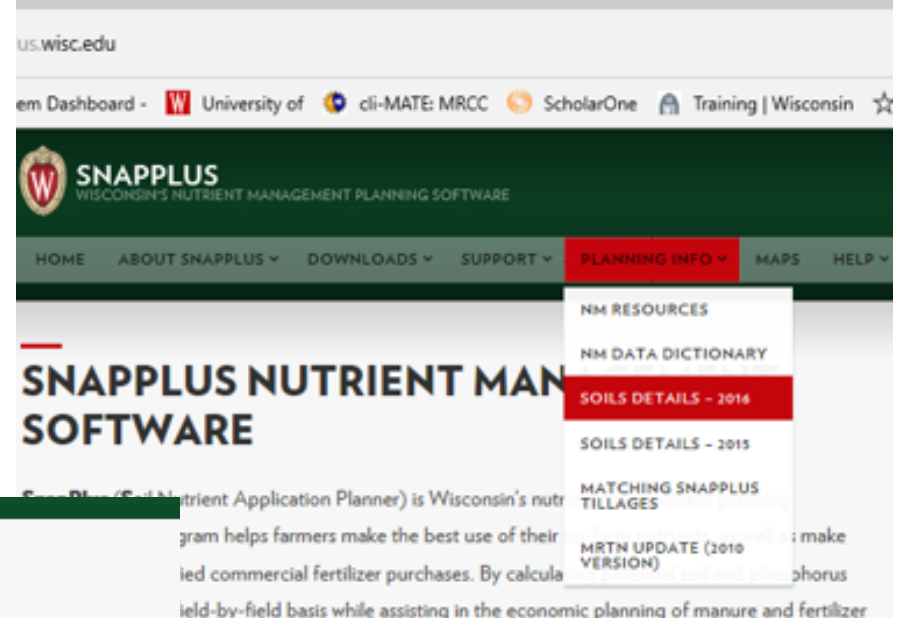
- Few changes in map units
- Series name change for some map units

*Ex. Dane Cty SnC2 Seaton variant now SnC2
Churchtown*

- K change: 5% of map units
- T change: 2% of map units
- Fewer W soils (no perched water tables)
- No change to soil groups or N yield response



Soils Details -2017



PLANNING INFO

SOILS DETAILS – 2016

Soil survey and soil map unit information updated

Soil map unit names and classifications have been updated to correspond with October 2015 Soil Survey updates by the Natural Resource Conservation Service (NRCS).

[Wisconsin soil map unit characterization changes for 2016](#)

[Wisconsin Soil Classifications for Nutrient Management Planning](#)

- [PDF](#)
- [Excel \(filterable by county\)](#)

[Soil Map Units with NR 243 Prohibitions on Manure Applications](#)

[590 Fall N restricted soils 2016 \(WI 590 Tech Note 1 Appendix 1\)](#)

Will show all
current map
unit properties
and changes